



Attorney Docket No.: 42390P4017C2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:)

Robert N. Hasbun et al.)

Application No.: 10/654,559)

Filed: September 2, 2003)

For: METHOD OF PERFORMING RELIABLE)
UPDATES IN A SYMMETRICALLY)
BLOCKED NONVOLATILE MEMORY)
HAVING A BIFURCATED STORAGE)
ARCHITECTURE)

Examiner:

Art Unit:

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

EXPRESS MAIL STATEMENT

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Christopher P. Marshall

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Christopher P. Marshall

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9/23/2003

(Date Signed)

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

XXX 37 C.F.R. §1.97(b).

_____ 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:

_____ A statement pursuant to 37 C.F.R. §1.97(e) or

_____ A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

_____ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:

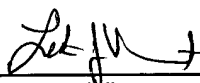
- (1) A statement pursuant to 37 C.F.R. §1.97(e); and
- (2) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: September 23, 2003



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

C mplete if Kn wn

Application Number	10/654,559
Filing Date	September 2, 2003
First Named Inventor:	Robert N. Hasbun
Art Unit	
Examiner Name	
Attorney Docket Number	42390P4017C2

1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures App ar
		Number-Kind Code ² (if known)				
		US-	4,758,944	7/19/1988	Bartley et al.	
		US-	4,849,878	7/18/1989	Roy	
		US-	5,297,148	3/22/1994	Harari et al.	
		US-	5,333,292	7/26/1994	Takemoto et al.	
		US-	5,361,343	11/1/1994	Kosonocky et al.	
		US-	5,404,485	4/4/1995	Ban	
		US-	5,410,707	4/25/1995	Bell	
		US-	5,437,020	7/25/1995	Wells et al.	
		US-	5,473,753	12/5/1995	Wells et al.	
		US-	5,475,753	12/12/1995	Barbara et al.	
		US-	5,479,639	12/26/1995	Ewertz et al.	
		US-	5,519,831	5/21/1996	Holzhammer	
		US-	5,519,843	5/21/1996	Moran et al.	
		US-	5,522,076	5/28/1996	Dewa et al.	
		US-	5,530,673	7/25/1996	Tobita et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				

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Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Substitute for Form 1449/PTO <div style="text-align: center; font-size: 1.2em; font-weight: bold;"> INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> </div>			Complete if Known		
			Application Number	10/654,559	
			Filing Date	September 2, 2003	
			First Named Inventor:	Robert N. Hasbun	
			Art Unit		
			Examiner Name		
Sheet	2	of	5	Attorney Docket Number	42390P4017C2

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Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)				
		US-	5,533,190	7/2/1996	Binford et al.	
		US-	5,535,357	7/9/1996	Moran et al.	
		US-	5,535,369	7/9/1996	Wells et al.	
		US-	5,563,828	10/8/1996	Hasbun et al.	
		US-	5,577,194	11/19/1996	Wells et al.	
		US-	5,579,522	11/26/1996	Christeson et al.	
		US-	5,581,723	12/3/1996	Hasbun et al.	
		US-	5,596,738	1/21/1997	Pope	
		US-	5,602,987	2/11/1997	Harari et al.	
		US-	5,603,056	2/11/1997	Totani	
		US-	5,625,819	4/29/1997	Hoffer, Jr.	
		US-	5,671,388	9/23/1997	Hasbun	
		US-	5,680,570	10/21/1997	Rantala et al.	
		US-	5,715,423	2/3/1998	Levy	
		US-	5,717,886	2/10/1998	Miyauchi	

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		Number-Kind Code ² (If known)				
		US-	5,734,874	3/31/1998	Hook et al.	
		US-	5,737,742	4/7/1998	Archiwa et al.	
		US-	5,809,558	9/15/1998	Matthews et al.	
		US-	5,933,838	8/3/1999	Lomet	
		US-	5,937,434	8/10/1999	Hasbun et al.	
		US-	5,974,426	10/26/1999	Lee et al.	
		US-	6,014,755	1/11/2000	Wells et al.	
		US-	6,088,759	7/11/2000	Hasbun et al.	
		US-	6,122,733	9/19/2000	Christeson et al.	
		US-	6,170,066 B1	1/2/2001	See	
		US-	6,182,188 B1	1/30/2001	Hasbun et al.	
		US-	6,243,789 B1	6/5/2001	Hasbun et al.	
		US-	6,311,290 B1	10/30/2001	Hasbun et al.	
		US-	6,412,040 B1	6/25/2002	Hasbun et al.	
		US-				

FOREIGN PATENT DOCUMENTS

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Attorney Docket Number	42390P4017C2

SEP 2 3 2003
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Sheet 4 of 5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		"Intel and M-Systems Sign FTL Marketing Agreement," News and Events Press Releases, M-Systems, 2pgs. (December 11, 1995)	
		"AMD Flash Card Products Supported by TrueFFS Software," News and Events Press Releases, M-Systems, 2pgs. (March 24, 1997)	
		"M-Systems Announces a NOR Flash Disk Solution Suite," News and Events Press Releases, M-Systems, 3pgs. (August 19, 1996)	
		"Offering up to 72Mbytes in a single-chip 32-pin DIP, Flash DiskOnChip 2000 showcases striking improvements in capacity, performance, and price," New and Events Press Releases, M-Systems, 3 pgs. (March 17, 1997)	
		"Flash PC Card Performance and Capacity Boosted with the Series 2000 NAND-based Architecture," New and Events Press Releases, M-Systems, 2pgs. (January 27, 1997)	
		"FTL, Flash Translation Layer," M-Systems, 2pgs., reprinted (April 11, 1997)	
		"M-Systems Introduces Industry's Fastest SCSI Flash Disk," News and Events Press Releases, M-Systems, 2pgs. (March 14, 1996)	
		"FlashDisk Alternatives, ATA Versus FTL," M-Systems, 8pgs. (May 1996)	
		Maurice J. Bach, "The Design of the Unix Operating System," Prentice Hall, Inc., pgs. 285-305 (1986)	
		"A TrueFFS and FLite Technical Overview of M-Systems' Flash File Systems", M-Systems Technology Brief, 10/96 (pgs. 1-10).	
		Products Guide, M-Systems (reprinted 4/97), (3 pgs.)	

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SEP 23 2003

Summary of USPTO Kind Codes Used on Documents Published Beginning January 2, 2001

ST.16 Kind Codes	Kind of document	Comments
A1	Patent Application Publication	Pre-grant publication available March 2001
A2	Patent Application Publication (Republication)	Pre-grant publication available March 2001
A9	Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
B1	Patent	No previously published pre-grant publication
B2	Patent	Having a previously published pre-grant publication and available March 2001
C1, C2, C3...	Reexamination Certificate	Previously used codes B1 and B2 are now used for granted Patents
E	Reissue Patent	No change
H	Statutory Invention Registration (SIR)	No change
P1	Plant Patent Application Publication	Pre-grant publication available March 2001
P2	Plant Patent	No previously published pre-grant publication
P3	Plant Patent	Having a previously published pre-grant publication and available March 2001
P4	Plant Patent Application Publication (Republication)	Pre-grant publication available after March 2001
P9	Plant Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
S	Design Patent	No change